

Please add the following claims 26-36.

26. An assay method for identifying an agent that can affect PDE_XIV expression, the assay method comprising
contacting the agent with a nucleotide sequence according to claim 3;
and
measuring the expression of PDE_XIV;
wherein a difference between PDE expression in the absence of the agent and PDE expression in the presence of the agent is indicative that the agent can affect PDE_XIV expression.

27. An assay method according to claim 26 wherein the assay is to screen for agents useful in the treatment of disorders found in any one or more of the putamen, the Caudate nucleus of the brain, the Occipital lobe of the brain, the heart, ovary, the pituitary gland, kidney, liver, small intestine, thymus, skeletal muscle, leukocyte regions, dorsal root ganglia, uterus, cochlea, small intestine (duodenum), astrocytoma, and appendix.

28. A process comprising the steps of:
(a) performing the assay according to claim 26;
(b) identifying one or more agents that do affect PDE_XIV expression; and
(c) preparing a quantity of those one or more identified agents.

sub c1
29. An isolated PDE_XIV protein, wherein said protein shares at least 75% homology with SEQ ID NO:1, SEQ ID NO:3, or SEQ ID NO:5.

A2
30. A PDE_XIV protein of claim 29, wherein said protein shares at least 85% homology with SEQ ID NO:1, SEQ ID NO:3, or SEQ ID NO:5.

31. A PDE_XIV protein of claim 29, wherein said protein shares at least 95% homology with SEQ ID NO:1, SEQ ID NO:3, or SEQ ID NO:5.

32. An isolated nucleic acid encoding a PDE_XIV protein, wherein said nucleic acid shares at least 75% homology with SEQ ID NO:2, SEQ ID NO:4, or SEQ ID NO:6.

33. A nucleic acid of claim 32, wherein said nucleic acid shares at least 85% homology with SEQ ID NO:2, SEQ ID NO:4, or SEQ ID NO:6.

34. A nucleic acid of claim 32, wherein said nucleic acid shares at least 95% homology with SEQ ID NO:2, SEQ ID NO:4, or SEQ ID NO:6.

35. An isolated nucleic acid encoding a PDE_XIV protein, wherein said nucleic acid hybridizes under high stringent conditions to a nucleic acid as set forth in SEQ ID NO:2, SEQ ID NO:4, or SEQ ID NO:6, or hybridizes to the antisense strand thereof.

sub c1
36. An isolated PDE_XIV protein encoded by a nucleic acid of claim 35.